

Product datasheet for **RG217866**

delta Sarcoglycan (SGCD) (NM_172244) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	delta Sarcoglycan (SGCD) (NM_172244) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SGCD
Synonyms:	35DAG; CMD1L; DAGD; LGMDR6; SG-delta; SGCDP; SGD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217866 representing NM_172244 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGCCTCAGGAGCAGTACACTCACCACCGGAGCACCATGCCTGGCTCTGTGGGGCCACAGGTATACA
AGGTGGGGATTTATGGCTGGCGGAAACGATGCCTGTATTTCTTTGCTGCTCCTCATGATTTTAACT
GGTGAAC TTGGCCATGACCATCTGGATTCTCAAAGTCATGAACCTCACAATTGATGGAATGGGAAACCTG
AGGATCACAGAAAAGGTCTAAAGCTAGAAGGAGACTCTGAATTCTTACAACCTCTCTACGCCAAAGAAA
TCCAGTCCCGACCAGGTAATGCCCTGTACTTCAAGTCTGCCAGAAATGTTACAGTGAACATTCTCAATGA
CCAGACTAAAGTGCTAACTCAGCTTATAACAGGTCCAAAAGCCGTAGAAGCTTATGGTAAAAATTTGAG
GTAAAACTGTTTCTGGAAAATTGCTCTTCTCTGCAGACAATAATGAAGTGGTAGTAGGAGCTGAAAGAT
TACGAGTTTTAGGAGCGGAGGGCACAGTGTTCCTAAATCTATAGAAACACCTAATGTCAGGGCAGACCC
CTTCAAAGAACTAAGGTTGGAGTCCCCAACCCGGTCTCTAGTGATGGAGGCCCAAAAGGAGTGGAAATC
AATGCAGAAGCTGGCAATATGGAAGCCACCTGCAGGACAGAGCTGAGACTGGAATCCAAAGATGGAGAGG
TGAGGGATGAGAAGGACAGAAGTTCAAAGAGCTACAGTTC AACAGGCCAACCTTCCCATAACTGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217866 representing NM_172244
 Red=Cloning site Green=Tags(s)

MMPQEYTHHRSTMPGSVGPQVYKVGIVGWRKRCLYFFVLLLMILILVNLAMTIWILKVMNFTIDGMGNL
 RITEKGLKLEGDSEFLQPLYAKEIQSRPGNALYFKSARNVTVNILNDQTKVLTQLITGPKAVEAYGKKFE
 VKTVSGKLLFSADNNEVVGAERLRLVGAEGTVFPKSIEIPNVRADPFKELRLESPTRSLVMEAPKGVIEI
 NAEAGNMEATCRTELRLLESKDGEVRDEKDRSSKSYSFNRPTLPITG

TRTRPLE - GFP Tag - V

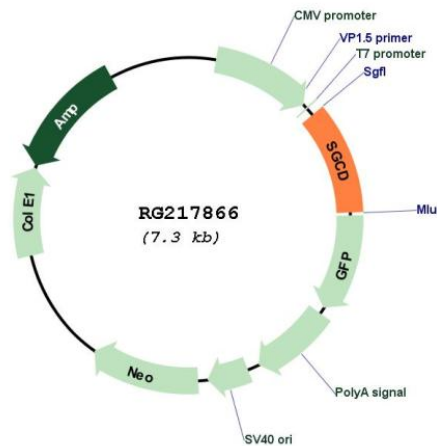
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_172244

ORF Size: 768 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_172244.3
RefSeq Size:	1576 bp
RefSeq ORF:	771 bp
Locus ID:	6444
UniProt ID:	Q92629
Cytogenetics:	5q33.2-q33.3
Protein Families:	Transmembrane
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), Viral myocarditis
Gene Summary:	The protein encoded by this gene is one of the four known components of the sarcoglycan complex, which is a subcomplex of the dystrophin-glycoprotein complex (DGC). DGC forms a link between the F-actin cytoskeleton and the extracellular matrix. This protein is expressed most abundantly in skeletal and cardiac muscle. Mutations in this gene have been associated with autosomal recessive limb-girdle muscular dystrophy and dilated cardiomyopathy. Alternatively spliced transcript variants encoding distinct isoforms have been observed for this gene. [provided by RefSeq, Jul 2008]